

Code No: **R204101V**

**R20**

**Set No. 1**

**IV B.Tech I Semester Regular Examinations, January – 2024**

**DISASTER MANAGEMENT**

**(Common to All Branches except Civil Engineering)**

**Time: 3 hours**

**Max. Marks: 70**

*Answer any FIVE Questions  
ONE Question from Each unit  
All Questions Carry Equal Marks*

\*\*\*\*\*

**UNIT - I**

- 1 a) List the different natural disasters and mention sub components of any one briefly. [7]  
b) Explain about interdisciplinary nature of the subject in disaster management. [7]
- (OR)
- 2 a) What are flash floods? Explain about one recent flash flood that affected large population of a region in India. [7]  
b) Define earthquake and explain in detail about the types, causes and preventive measures of earthquake. [7]

**UNIT - II**

- 3 a) List the various types of man-made disasters and mention their sub components. [7]  
b) Discuss a case study about forest fire in India. [7]
- (OR)
- 4 a) What are types of bioterrorism and explain any one type with case study. [7]  
b) What are emerging infectious diseases? How can travellers reduce their risk from infectious diseases? [7]

**UNIT - III**

- 5 a) Explain the environmental and socio-economic impacts due to Land use changes. [7]  
b) Discuss the various factors affecting vulnerability in disaster management. [7]
- (OR)
- 6 a) Explain in briefly about social Vulnerability during pre-disaster and post disaster. [7]  
b) What is Environmental Vulnerability? Explain about Environmental Vulnerability in detail? [7]

**UNIT - IV**

- 7 a) What is GIS? How this application helps in disaster management process? [7]  
b) How is disaster management important for infrastructure? Explain about it. [7]

(OR)

- 8 a) What are the mitigation programs for earthquakes? [7]  
b) How is multimedia technology used in disaster risk management and training? [7]

**UNIT - V**

- 9 a) What is the impact of disaster on poverty and deprivation? [7]  
b) Name the more likely routes by which direct human exposure to toxic materials may occur. Explain. [7]

(OR)

- 10 a) Explain about the red cross and red crescent movement. [7]  
b) What is role of community in disaster management? Explain with any case study. [7]

**IV B.Tech I Semester Regular Examinations, January – 2024****DISASTER MANAGEMENT****(Common to All Branches except Civil Engineering)****Time: 3 hours****Max. Marks: 70**

*Answer any FIVE Questions  
ONE Question from Each unit  
All Questions Carry Equal Marks*

\*\*\*\*\*

**UNIT - I**

- 1 a) Explain about disaster management cycle. [7]  
b) What are the causes for the Tsunami 2004 which inflicted heavy loss to life and property along the coast of Tamil Nadu? Specify its epicenter and magnitude. [7]

(OR)

- 2 a) Explain the types of drought and drought preparedness with Mitigation. [7]  
b) How cyclones are formed? Explain in detail about Hudh-Hudh cyclone as case study. [7]

**UNIT - II**

- 3 a) Explain about the transport hazard dynamics with case study. [7]  
b) What are threats in mega cities? Explain briefly any two case studies related to mega cities. [7]

(OR)

- 4 a) How does groundwater cause disaster management? [7]  
b) Explain in detail about case study of rail accidents. [7]

**UNIT - III**

- 5 a) Discuss about physical Vulnerability in detail? [7]  
b) What is the financial management of disasters? Explain any case study. [7]

(OR)

- 6 a) Explain about Macro-economic Management? [7]  
b) Explain about sustainable development. [7]

**UNIT - IV**

- 7 a) What is the role of GIS Application and Information technology on analysing the Chennai Floods in 2015? [7]  
b) Explain about taxonomy of infrastructure in disaster management. [7]  
(OR)
- 8 a) What are the benefits of RS and GIS in disaster management? [7]  
b) Define traditional knowledge? Discuss the types of indigenous knowledge. [7]

**UNIT - V**

- 9 a) What are the benefits of climate change adaptation? Explain with examples. [7]  
b) What is disaster risk reduction? Explain about it in forest management. [7]  
(OR)
- 10 a) What is role of corporate sector in disaster management? [7]  
b) Explain about community based disaster recovery. [7]

**IV B.Tech I Semester Regular Examinations, January – 2024****DISASTER MANAGEMENT****(Common to All Branches except Civil Engineering)****Time: 3 hours****Max. Marks: 70**

*Answer any FIVE Questions  
ONE Question from Each unit  
All Questions Carry Equal Marks*

\*\*\*\*\*

**UNIT - I**

- 1 a) Write case study on Bhuj Earthquake. [7]  
b) Explain about five priorities of plan in disaster management. [7]  
(OR)
- 2 a) Write a case study on Vegetal Cover floods. [7]  
b) Write any two post tsunami hazards along the coast line? [7]

**UNIT - II**

- 3 a) How does solid waste creates disaster? What are effects of it? [7]  
b) Explain briefly post disaster. [7]  
(OR)
- 4 a) Explain in detail about case study of aircraft accidents. [7]  
b) How can reduce risk from infectious diseases and AIDS? [7]

**UNIT - III**

- 5 a) Write in short about the effects of climate change on:  
i) Weather  
ii) Agriculture and Forest [7]  
iii) Human Health  
b) What is the Importance of land use planning in disaster management process? [7]  
(OR)
- 6 a) Discuss the various factors affecting vulnerability in disaster management. [7]  
b) Explain about climate change risk rendition. [7]

**UNIT - IV**

- 7 a) What is role of disaster management for roads and bridges at the time of disaster? [7]  
b) What happens when water treatment plants are damaged by natural disasters? Explain with any case study. [7]  
(OR)
- 8 a) Explain geospatial information role in agriculture drought assessment. [7]  
b) Explain the importance of RS&GIS in disaster management. [7]

**UNIT - V**

- 9 a) Generally “Absorption from lungs is greater than from mouth”, why? Explain about environment exposure briefly. [7]  
b) How is education related to disaster risk reduction? [7]  
(OR)
- 10 a) What is resilience? Explain the scope of disaster resilience. [7]  
b) Give reasons for the establishment of Community capital. [7]

**IV B.Tech I Semester Regular Examinations, January – 2024****DISASTER MANAGEMENT****(Common to All Branches except Civil Engineering)****Time: 3 hours****Max. Marks: 70**

*Answer any FIVE Questions  
ONE Question from Each unit  
All Questions Carry Equal Marks*

\*\*\*\*\*

**UNIT - I**

- 1 a) Write a case study on land slider and control measures of it? [7]  
b) Define natural Hazards? Explain about any two natural Hazards in briefly. [7]  
(OR)
- 2 a) What are landslides? List out five major causes of landslides in India. [7]  
b) State the various causes and effects of Cyclone. [7]

**UNIT - II**

- 3 a) Describe the different causes and effects of any one manmade disaster. [7]  
b) Define man-made disaster? Explain about any one of the man-made disaster in briefly. [7]  
(OR)
- 4 a) Explain in detail about latest case study of any one of the major Industrial accident in India? [7]  
b) Write a short note on Covid -19 case studies as a man-made disaster and how it is controlled? [7]

**UNIT - III**

- 5 a) Explain in detail about social vulnerability with a case study? [7]  
b) How are building codes important in disaster management? Explain about it. [7]  
(OR)
- 6 a) Write an essay on different kind of losses in disaster? [7]  
b) How can minimize the financial management. [7]

**UNIT - IV**

- 7 a) What GIS? Explain the role RS & GIS application helps in analysis of damage loss due to cyclonic effect? [7]  
b) Explain the role of multimedia technology in disaster risk management. [7]  
(OR)
- 8 a) What is importance of electrical substations in disaster management? Explain with a case study. [7]  
b) Draw flowchart diagram for mitigation programs and explain briefly. [7]

**UNIT - V**

- 9 a) What are the common health hazards associated in the post disaster? [7]  
b) Explain the essentiality of school disaster education with a case study? [7]  
(OR)
- 10 a) Explain about forest management related to disaster risk reduction. [7]  
b) Explain the concept of Designing resilience. [7]